



Project: ICARC FOX HUNT
Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC TDOA, SYNCHRONOUS

Board: 102-73170.62

Schematic: 102-73170.62

Idx #	Pg #	Comp S/N as needed	Component MIT	Part Type	Ref Des	Part Value	Flight Part Number	Kit by	Value Ver	Insp by	Lead Form	Insp by	Tinned by	Insp by	Appl by	Insp by
6	1	2.4C Bot	0.970 0.385	CAP CER X7R 50V SM0603	C1	.01UF	CL10B103KB8NNNC									
6	1	2.8E Bot	1.315 0.765	CAP CER X7R 50V SM0603	C11	.01UF	CL10B103KB8NNNC									
6	1	2.3D Bot	1.190 0.390	CAP CER X7R 50V SM0603	C12	.01UF	CL10B103KB8NNNC									
6	1	3.4F Bot	1.375 2.295	CAP CER X7R 50V SM0603	C15	.01UF	CL10B103KB8NNNC									
6	1	4.4F Top	1.975 0.120	CAP CER X7R 50V SM0603	C20	.01UF	CL10B103KB8NNNC									
6	1	3.2D Bot	1.105 1.005	CAP CER X7R 50V SM0603	C21	.01UF	CL10B103KB8NNNC									
6	1	4.5F Top	2.270 0.225	CAP CER X7R 50V SM0603	C26	.01UF	CL10B103KB8NNNC									
6	1	2.1C Bot	0.485 0.370	CAP CER X7R 50V SM0603	C3	.01UF	CL10B103KB8NNNC									
6	1	4.6A Bot	2.740 0.980	CAP CER X7R 50V SM0603	C33	.01UF	CL10B103KB8NNNC									
6	1	4.6B Bot	2.425 0.980	CAP CER X7R 50V SM0603	C34	.01UF	CL10B103KB8NNNC									
6	1	4.5E Bot	3.450 0.805	CAP CER X7R 50V SM0603	C36	.01UF	CL10B103KB8NNNC									
6	1	4.4E Bot	3.125 0.490	CAP CER X7R 50V SM0603	C37	.01UF	CL10B103KB8NNNC									
6	1	4.2B Bot	2.150 0.755	CAP CER X7R 50V SM0603	C38	.01UF	CL10B103KB8NNNC									
6	1	4.3B Bot	2.150 0.930	CAP CER X7R 50V SM0603	C39	.01UF	CL10B103KB8NNNC									
6	1	2.5C Bot	0.325 0.960	CAP CER X7R 50V SM0603	C4	.01UF	CL10B103KB8NNNC									
6	1	4.3B Bot	2.360 1.230	CAP CER X7R 50V SM0603	C40	.01UF	CL10B103KB8NNNC									
6	1	4.4B Bot	2.525 1.360	CAP CER X7R 50V SM0603	C41	.01UF	CL10B103KB8NNNC									
6	1	2.7D Top	1.680 0.545	CAP CER X7R 50V SM0603	C43	.01UF	CL10B103KB8NNNC									



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6	2	2.6C Bot	0.535 1.510	CAP CER X7R 50V SM0603	C5	.01UF	CL10B103KB8NNNC									
6	2	2.7D Bot	1.505 1.695	CAP CER X7R 50V SM0603	C6	.01UF	CL10B103KB8NNNC									
6	2	2.6D Bot	1.325 1.360	CAP CER X7R 50V SM0603	C65	.01UF	CL10B103KB8NNNC									
6	2	2.4C Bot	0.565 0.960	CAP CER X7R 50V SM0603	C7	.01UF	CL10B103KB8NNNC									
6	2	2.8C Bot	1.030 2.465	CAP CER X7R 50V SM0603	C8	.01UF	CL10B103KB8NNNC									
7	2	2.7D Bot	1.745 0.420	CAP CER X7R 50V SM0603	C13	.1UF	CL10B104KB8NNNC									
7	2	3.5F Bot	1.805 2.450	CAP CER X7R 50V SM0603	C16	.1UF	CL10B104KB8NNNC									
7	2	3.3F Bot	1.480 2.016	CAP CER X7R 50V SM0603	C19	.1UF	CL10B104KB8NNNC									
7	2	4.4F Bot	1.940 0.230	CAP CER X7R 50V SM0603	C25	.1UF	CL10B104KB8NNNC									
7	2	4.5F Top	2.270 0.415	CAP CER X7R 50V SM0603	C27	.1UF	CL10B104KB8NNNC									
7	2	4.1E Bot	2.740 1.075	CAP CER X7R 50V SM0603	C35	.1UF	CL10B104KB8NNNC									
7	2	3.5F Bot	0.070 1.045	CAP CER X7R 50V SM0603	C46	.1UF	CL10B104KB8NNNC									
8	2	3.8C Top	4.475 1.170	CAP NPO/BP SM0603	C17	1000PF	GRM1885C1H102JA01J									
8	2	3.7B Top	4.470 1.920	CAP NPO/BP SM0603	C5A	1000PF	GRM1885C1H102JA01J									
8	2	3.8B Top	4.470 0.920	CAP NPO/BP SM0603	C5B	1000PF	GRM1885C1H102JA01J									
9	2	4.1F Bot	2.845 0.835	CAP NPO/BP SM0603	C30	10PF	C0603C100K5GACTU									
9	2	4.1F Bot	2.740 0.835	CAP NPO/BP SM0603	C31	10PF	C0603C100K5GACTU									
10	2	2.9E Bot	1.375 1.130	CAP X7R/BX SM0805	C10	10UF/16V	CL21B106KOQNNNE									



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10	3	2.7D Bot	1.725 0.130	CAP X7R/BX SM0805	C18	10UF/16V	CL21B106KOQNNNE									
10	3	2.4A Bot	3.095 2.565	CAP X7R/BX SM0805	C2	10UF/16V	CL21B106KOQNNNE									
10	3	3.5C Bot	3.510 1.920	CAP X7R/BX SM0805	C22	10UF/16V	CL21B106KOQNNNE									
10	3	3.5C Bot	3.610 2.020	CAP X7R/BX SM0805	C23	10UF/16V	CL21B106KOQNNNE									
10	3	3.5B Bot	3.710 2.120	CAP X7R/BX SM0805	C24	10UF/16V	CL21B106KOQNNNE									
10	3	4.4F Top	2.455 0.615	CAP X7R/BX SM0805	C32	10UF/16V	CL21B106KOQNNNE									
10	3	2.3A Bot	2.415 2.600	CAP X7R/BX SM0805	C45	10UF/16V	CL21B106KOQNNNE									
11	3	3.5F Top	1.630 1.965	CAP TANTALUM SMP1210	C28	10UF	10UF									
11	3	4.6F Top	2.075 0.565	CAP TANTALUM SMP1210	C29	10UF	10UF									
11	3	3.5F Top	0.615 2.130	CAP TANTALUM SMP1210	C44	10UF	10UF									
11	3	3.3F Top	0.615 2.335	CAP TANTALUM SMP1210	C73	10UF	10UF									
12	3	2.9E Bot	1.375 0.930	CAP X7R/BX SM0805	C14	1UF	C0805C105J3RACTU									
12	3	2.7E Top	1.710 0.740	CAP X7R/BX SM0805	C42	1UF	C0805C105J3RACTU									
12	3	2.5B Bot	0.200 1.190	CAP X7R/BX SM0805	C51	1UF	C0805C105J3RACTU									
12	3	2.5C Bot	0.700 1.140	CAP X7R/BX SM0805	C61	1UF	C0805C105J3RACTU									
12	3	2.7E Top	1.580 0.740	CAP X7R/BX SM0805	C9	1UF	C0805C105J3RACTU									
13	3	3.5B Bot	4.160 2.215	CAP NPO/BP SM0603	C3A	47PF	C0603C470J5GACAUTO									
13	3	3.5C Bot	4.190 1.195	CAP NPO/BP SM0603	C3B	47PF	C0603C470J5GACAUTO									



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13	4	3.5D Bot	4.145 1.770	CAP NPO/BP SM0603	C3C	47PF	C0603C470J5GACAUTO									
14	4	2.9E Bot	1.555 0.685	DIODE SOD123	D2	1N4148	1N4148W-7-F									
15	4	3.8B Top	4.220 1.420	DIODE PIN SOT23-3	D1	1SV267	1SV267-TB-E									
16	4	4.4B Bot	2.240 1.310	DIODE SCHOTTK LOW LWAK SOD123	D4	BAS100	BAS100AS_R1_00001									
16	4	4.5B Bot	2.400 1.545	DIODE SCHOTTK LOW LWAK SOD123	D5	BAS100	BAS100AS_R1_00001									
17	4	4.3F Top	2.485 0.470	DIODE SOT23-3	D3	BAV199	BAV199/ZL215									
18	4	3.3F Top	3.020 2.697	DIODE 5A DO-201-AD	D10	ER502	ER502_R2_00001									
19	4	3.9E Top	6.200 5.400	BOX ABS BLACK 6.69L X 3.37W ENCL0001	ENCL1	1599EBKBAT	1599EBKBAT									
21	4	3.2E Bot	0.650 2.420	FUSE 500mA SM0603	F1	500MA	MFU0603FF00500P500									
23	4	2.9B Top	1.975 2.520	CONN-LTCH-MOLEX-VERT 3 HDR_1X3	J5	0705430002	0705430002									
23	4	2.4A Top	3.095 2.435	CONN-LTCH-MOLEX-VERT 3 HDR_1X3	J9	0705430002	0705430002									
24	4	3.1F Top	0.210 2.745	CONN-LTCH-MOLEX-R/A 3 HDR_50-57-9403	J4	0705530002	0705530002									
25	4	3.7B Top	4.510 2.170	CONN BNC R/A COAX SMA_BNC	J2	5414373-1	5414373-1									
25	4	3.9B Top	4.510 0.670	CONN BNC R/A COAX SMA_BNC	J3	5414373-1	5414373-1									
26	4	4.3E Top	2.655 0.205	CONNECTOR HDR_2X3	J7	75869-131LF	75869-131LF									
27	4	2.6B Top	0.570 1.765	JUMPER HEADER HDR_2X2/IMP	JP2	PBC02DAAN	PBC02DAAN									
28	4	2.3A Top	2.670 2.410	JUMPER HEADER JMP03N	JP1	PBC03SAAN	PBC03SAAN									
29	4	3.9D Top	4.510 1.420	CONN SMA R/A COAX SMA_BNC	J1	RF2-49B	RF2-49B-T-00-50-G-HDW									



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30	5	2.2A Top	2.350 2.835	CONN JACK STEREO SJ-352X	J6	SJ-3524	SJ-3524-SMT-TR									
30	5	4.7E Top	3.585 0.000	CONN JACK STEREO SJ-352X	J8	SJ-3524	SJ-3524-SMT-TR									
31	5	3.5B Top	3.995 2.120	INDUCTOR AIAC-1812	L1A	100nH	AIAC-1812-R10									
31	5	3.5C Top	4.025 1.100	INDUCTOR AIAC-1812	L1B	100nH	AIAC-1812-R10									
31	5	3.5C Top	3.980 1.675	INDUCTOR AIAC-1812	L1C	100nH	AIAC-1812-R10									
32	5	4.5C Top	1.975 1.000	LED BR RED DIFF 3.7MCD LED_T1-34C	LD1	LTL-4213	LTL-4213									
32	5	4.9C Top	3.725 1.000	LED BR RED DIFF 3.7MCD LED_T1-34C	LD9	LTL-4213	LTL-4213									
33	5	4.6C Top	2.042 1.335	LED HE RED DIFF 19MCD LED_T1-34C	LD2	LTL-4223	LTL-4223									
33	5	4.8C Top	3.658 1.335	LED HE RED DIFF 19MCD LED_T1-34C	LD8	LTL-4223	LTL-4223									
34	5	4.7C Top	2.850 1.875	LED GRN DIFF 19MCD LED_T1-34C	LD5	LTL-4233	LTL-4233									
35	5	4.7C Top	2.515 1.808	LED YEL DIFF 19MCD LED_T1-34C	LD4	LTL-4253	LTL-4253									
35	5	4.8C Top	3.185 1.808	LED YEL DIFF 19MCD LED_T1-34C	LD6	LTL-4253	LTL-4253									
36	5	4.6C Top	2.231 1.619	LED ORG DIFF 29MCD LED_T1-34C	LD3	LTL-4293	LTL-4293									
36	5	4.8C Top	3.469 1.619	LED ORG DIFF 29MCD LED_T1-34C	LD7	LTL-4293	LTL-4293									
41	5	4.3E Bot	2.690 0.400	RES Jumper SM0603-3	R38	0	M55342									
42	5	2.7C Bot	1.105 2.760	RES THK-FLM SM0603	R23	1.0K	M55342K12B1E00TW									
42	5	2.7C Bot	0.865 2.415	RES THK-FLM SM0603	R24	1.0K	M55342K12B1E00TW									
43	5	2.8B Bot	1.065 2.150	RES THK-FLM SM0603	R26	100K	M55342K12B100ETW									



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44	6	2.6B Bot	1.000 1.560	RES THK-FLM SM0603	R14	10K	M55342K12B10E0TW									
44	6	2.4A Bot	2.220 2.640	RES THK-FLM SM0603	R15	10K	M55342K12B10E0TW									
44	6	2.2C Bot	1.025 0.235	RES THK-FLM SM0603	R17	10K	M55342K12B10E0TW									
44	6	2.3A Bot	2.090 2.640	RES THK-FLM SM0603	R19	10K	M55342K12B10E0TW									
44	6	2.6B Top	0.960 1.575	RES THK-FLM SM0603	R20	10K	M55342K12B10E0TW									
44	6	2.7B Bot	1.220 1.560	RES THK-FLM SM0603	R21	10K	M55342K12B10E0TW									
44	6	2.7B Top	0.960 1.475	RES THK-FLM SM0603	R22	10K	M55342K12B10E0TW									
44	6	2.3D Bot	0.740 0.385	RES THK-FLM SM0603	R27	10K	M55342K12B10E0TW									
44	6	4.4F Top	2.625 0.505	RES THK-FLM SM0603	R40	10K	M55342K12B10E0TW									
44	6	4.2E Top	3.020 0.230	RES THK-FLM SM0603	R43	10K	M55342K12B10E0TW									
44	6	4.3E Top	3.305 0.625	RES THK-FLM SM0603	R44	10K	M55342K12B10E0TW									
44	6	4.3E Top	3.320 0.300	RES THK-FLM SM0603	R45	10K	M55342K12B10E0TW									
44	6	2.8B Bot	1.870 1.500	RES THK-FLM SM0603	R46	10K	M55342K12B10E0TW									
44	6	2.9B Bot	1.870 1.600	RES THK-FLM SM0603	R47	10K	M55342K12B10E0TW									
44	6	2.6B Bot	2.020 0.895	RES THK-FLM SM0603	R48	10K	M55342K12B10E0TW									
44	6	2.6C Bot	2.020 0.790	RES THK-FLM SM0603	R49	10K	M55342K12B10E0TW									
44	6	4.3B Bot	2.245 0.930	RES THK-FLM SM0603	R50	10K	M55342K12B10E0TW									
44	6	4.3B Bot	2.245 0.755	RES THK-FLM SM0603	R51	10K	M55342K12B10E0TW									



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44	7	4.2B Bot	2.485 0.725	RES THK-FLM SM0603	R52	10K	M55342K12B10E0TW									
44	7	4.7E Bot	3.595 0.635	RES THK-FLM SM0603	R57	10K	M55342K12B10E0TW									
45	7	2.3B Top	0.460 0.730	RES THK-FLM SM0603	R10	10	M55342K12B10D0TW									
45	7	2.3B Bot	0.500 0.585	RES THK-FLM SM0603	R5	10	M55342K12B10D0TW									
46	7	4.7E Top	3.715 0.725	RES THK-FLM SMR0603-41	R41	10	M55342K12B110DTW									
46	7	4.7E Top	3.715 0.725	RES THK-FLM SMR0603-41	R42	10	M55342K12B110DTW									
47	7	3.7B Top	4.140 1.920	RES THK-FLM SM0603	R5A	2.00K	M55342K12B2E00TW									
47	7	3.8B Top	4.140 0.920	RES THK-FLM SM0603	R5B	2.00K	M55342K12B2E00TW									
47	7	3.7C Top	4.038 1.460	RES THK-FLM SM0603	R5C	2.00K	M55342K12B2E00TW									
48	7	2.8C Top	1.065 2.000	POT 200K OHM 1.181 PTV09-A4	R28	200K	PTV09A-4030U-B204									
49	7	4.5C Top	2.190 1.000	RES THK-FLM SM0603	R32	270	M55342K12B267DTW									
49	7	4.5D Top	3.510 1.000	RES THK-FLM SM0603	R35	270	M55342K12B267DTW									
50	7	4.2F Bot	3.070 0.695	RES THK-FLM SM0603	R39	3.3K	M55342K12B3E32TW									
51	7	2.1C Bot	0.720 0.160	RES THK-FLM SM0603	R56	4.7K	M55342K12B4E75TW									
52	7	4.7C Top	2.850 1.660	RES THK-FLM SM0603	R29	470	M55342K12B475DTW									
52	7	4.6D Top	2.597 1.610	RES THK-FLM SM0603	R30	470	M55342K12B475DTW									
52	7	4.6D Top	2.383 1.467	RES THK-FLM SM0603	R31	470	M55342K12B475DTW									
52	7	4.6C Top	2.240 1.253	RES THK-FLM SM0603	R33	470	M55342K12B475DTW									



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52	8	4.6D Top	3.460 1.253	RES THK-FLM SM0603	R34	470	M55342K12B475DTW									
52	8	4.6D Top	3.317 1.467	RES THK-FLM SM0603	R36	470	M55342K12B475DTW									
52	8	4.6D Top	3.103 1.610	RES THK-FLM SM0603	R37	470	M55342K12B475DTW									
53	8	2.7C Top	1.065 2.600	POT 5K OHM 0.787 PTV09-A4	R25	5K	PTV09A-4020F-B502									
54	8	2.4B Top	0.670 1.160	RES THK-FLM SM0603	R16	82.5K	M55342K12B82E5TW									
55	8	2.5B Bot	0.320 1.260	RES THK-FLM SM0603	R11	825K	M55342K12B825ETW									
55	8	2.5C Bot	0.450 1.140	RES THK-FLM SM0603	R13	825K	M55342K12B825ETW									
55	8	3.8D Bot	4.510 1.705	RES THK-FLM SM0603	R18	825K	M55342K12B825ETW									
55	8	3.7B Top	4.300 1.880	RES THK-FLM SM0603	R4A	825K	M55342K12B825ETW									
55	8	3.8B Top	4.300 0.960	RES THK-FLM SM0603	R4B	825K	M55342K12B825ETW									
55	8	3.8B Top	4.295 1.170	RES THK-FLM SM0603	R4C	825K	M55342K12B825ETW									
56	8	2.3B Top	0.575 0.730	N/A Not Applicable SM0603	R1	N/A 10	Do NOT Install									
56	8	2.3B Top	0.360 0.730	N/A Not Applicable SM0603	R2	N/A 10	Do NOT Install									
56	8	2.3B Top	0.240 0.730	N/A Not Applicable SM0603	R3	N/A 10	Do NOT Install									
56	8	2.3B Top	0.135 0.730	N/A Not Applicable SM0603	R4	N/A 10	Do NOT Install									
56	8	2.3B Bot	0.365 0.585	N/A Not Applicable SM0603	R6	N/A 10	Do NOT Install									
56	8	2.3B Bot	0.265 0.585	N/A Not Applicable SM0603	R7	N/A 10	Do NOT Install									
56	8	2.3C Top	0.190 0.230	N/A Not Applicable SM0603	R8	N/A 10	Do NOT Install									



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56	9	2.3C Top	0.190 0.135	N/A Not Applicable SM0603	R9	N/A 10	Do NOT Install									
57	9	2.2D Top	1.240 0.270	N/A Not Applicable 3266W	R12	N/A 20K	Do NOT Install									
58	9	4.5B Bot	2.525 1.455	N/A Not Applicable SM0603	R53	N/A	Do NOT Install									
58	9	4.4B Bot	2.360 1.135	N/A Not Applicable SM0603	R54	N/A	Do NOT Install									
58	9	4.2A Top	2.215 0.805	N/A Not Applicable SM0603	R55	N/A	Do NOT Install									
59	9	2.5A Top	3.705 2.510	SPEAKER 8 Ohm CVS-1508	SP1	CVS-1508	CVS-1508									
60	9	3.1E Top	0.600 2.560	PCB SWITCH SPDT R/A ON-ON SW_ET_A	SW2	ET01MD1ABE	ET01MD1ABE									
61	9	4.4E Top	3.190 0.240	SWITCH PUSH BUTTON SW_KMR2	SW1	KMR221	KMR221NG-LFS									
62	9	4.3F Top	3.170 0.505	LOGIC GATE AND SOT23-6	U10	74LVC1G11	SN74LVC1G11DBVR									
63	9	4.8E Top	3.465 0.805	LOGIC GATE ST SOT23-6	U11	74LVC2G17	SN74LVC2G17DBVR									
64	9	2.2B Top	0.370 0.450	IC DECADE COUNTER SO16	U3	CD4017	CD4017BM96									
65	9	3.4B Top	0.990 0.860	IC INVERTER SO16	U2	CD4049	CD4049UBDR									
66	9	3.4D Top	0.990 1.225	IC BUFFER SO16	U13	CD4050	CD4050BDR									
68	9	2.2C Top	0.925 0.450	IC NAND SO14	U1	HEF4093B	HEF4093BT-653									
69	9	2.8E Top	1.440 0.755	REG CHR9 PUMP SOT23-6	U8	MAX1721	MAX1721EUT+T									
70	9	4.6B Bot	2.560 1.130	VOLTAGE REF 2.500V SOT23-3	U12	MAX6102	MAX6102EUR+T									
71	9	2.5C Top	0.570 1.475	OP AMP SO8	U5	NCS20072	NCS20072DR2G									
71	9	2.8B Top	1.410 1.630	OP AMP SO8	U6	NCS20072	NCS20072DR2G									



Project: ICARC FOX HUNT
Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC TDOA, SYNCHRONOUS

Board: 102-73170.62

Schematic: 102-73170.62

Idx #	Pg #	Comp S/N as needed	Component MIT	Part Type	Ref Des	Part Value	Flight Part Number	Kit by	Value Ver	Insp by	Lead Form	Insp by	Tinned by	Insp by	Appl by	Insp by
72	10	2.4B Top	0.320 1.005	IC SWITCH SPST-NO SOT23-5	U4	TS12A4514	TS12A4514DBVR									
72	10	2.4C Top	0.560 1.005	IC SWITCH SPST-NO SOT23-5	U7	TS12A4514	TS12A4514DBVR									
73	10	4.4D Top	2.760 1.115	E28 PROCESSOR 16K/2K SO28	U9	Z8F1680	Z8F1680SJ020EG									
76	10	3.4E Top	1.580 2.185	SWITCHMODE REGULATOR TO220-3VX78_REV	VR3	R-78K5.0-0.5	R-78K5.0-0.5									
77	10	4.5F Top	2.035 0.320	VOLTAGE REGULATOR 3.3V SOT223	VR2	ZLDO1117-3.3	ZLDO1117QG33TA									
78	10	4.1F Top	2.835 0.710	CRYSTAL 20MHZ 20 PF HC49U	X1	ECS-200-20-4X	ECS-200-20-4X-DU									

NON-POPULATED and NON-PARTS (do not fill in this sheet)

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Idx #	Pg #	Comp S/N as needed	Component MIT	Part Type	Ref Des	Part Value	Flight Part Number	Kit by	Value Ver	Insp by	Lead Form	Insp by	Tinned by	Insp by	Appl by	Insp by
1	169	11	1.6E Top -3.950 -1.950	Documentation Artifact	BRD4	DRAWING FRAME	VP: Documentation Artifact									
2	170	11	1.6F Top 7.000 -1.950	Documentation Artifact	BRD3	DRAWING FRAME	VP: Documentation Artifact									
3	171	11	1.6E Bot 0.155 2.420	Documentation Artifact	BRD7	DRAWING FRAME	VP: Documentation Artifact									
4	172	11	1.6F Bot 2.830 2.305	Documentation Artifact	BRD6	DRAWING FRAME	VP: Documentation Artifact									
5	173	11	1.7E Top 0.000 0.000	Documentation Artifact	BRD5	DRAWING FRAME	VP: Documentation Artifact									
20	174	11	3.7F Top 1.765 1.445	Documentation Artifact	ESD1	DRAWING FRAME	VP: Documentation Artifact									
22	175	11	2.7E Top 1.975 2.030	Pad	GP1	PAD	VP: Not a Physical Part									
22	176	11	2.7E Top 4.170 0.585	Pad	GP2	PAD	VP: Not a Physical Part									
37	177	11	2.9C Top 0.000 0.000	Invalid Flight Part(1)	PCB1	CIRCUIT BOARD	Invalid Flight Part (see schematic)									
38	178	11	1.10F Top -3.765 5.460	Documentation Artifact	PWA1	DRAWING FRAME	VP: Documentation Artifact									
39	179	11	1.10E Top -3.745 5.440	Documentation Artifact	PWB1	DRAWING FRAME	VP: Documentation Artifact									
40	180	11	4.9D Top 2.935 0.830	Pad	PA2	PAD	VP: Not a Physical Part									
67	181	11	Top -0.575 4.850	Documentation Artifact	US\$1	DRAWING FRAME	VP: Documentation Artifact									
74	182	11	Top -0.725 0.000	Documentation Artifact	US\$2		VP: Artwork Documentation Artifact									
75	183	11	Top 0.000 -0.425	Documentation Artifact	US\$3		VP: Artwork Documentation Artifact									